



Conferenza A. Rittmann

Nicolosi (Catania), 12-14 Dicembre 2012

Programma (aggiornamento 10/12/12)

Mercoledì 12 dicembre		
9:00-10:00	Registrazione	
10:00-11:00	Saluti delle autorità - Consegna della Medaglia Fratelli Gemmellaro	
11:00-12:00	Key- lecture del Prof. Franco Barberi, vincitore Medaglia fratelli Gemmellaro Il ruolo della scienza nella mitigazione del rischio vulcanico: 30 anni di esperienze in Italia	
SESSIONE 1 (convenors: Azzaro R., Cioni R.)		
12:00	Raffaele Azzaro, Stefano Branca, Klaus Gwinner, Mauro Coltelli	The volcano-tectonic map of Etna volcano, 1:100.000 scale: an integrated approach based on a morphotectonic analysis from high-resolution DEM constrained by geologic, active faulting and seismotectonic data
12:15	Graziella Barberi, Ornella Cocina, Pasquale De Gori, Elisabetta Giampiccolo, Domenico Patanè, Simona Sicali	The inner structure of Etna volcano through local earthquake tomography
12:30	Simona Sicali, Graziella Barberi, Ornella Cocina, Carla Musumeci, Domenico Patanè,	Seismicity distribution and stress field before the 2001 Etna eruption
12:45	Simona Sicali, M. Serafina Barbano, Salvatore D'Amico, Raffaele Azzaro	Inter-event Time Distribution of Mt. Etna's earthquakes
13:00 Pranzo		
14:30	Alessandra Correale, Mauro Martelli, Antonio Paonita, Andrea Rizzo, Silvio Rotolo, Rosa Anna Corsaro, Valeria Di Renzo	Two-component mantle below Mt. Etna (Italy): evidences from noble gases and geochemistry of primitive volcanites as compared with nearby Hyblean mantle

14:45	Emanuela De Beni, Salvatore Di Stefano, Stefano Branca, Rosa A. Corsaro	Stratigraphic and petro-chemical analysis of core-holes samples located in the West Rift area of Etna volcano
15:00	Stefano Branca, Emanuela De Beni, Cristina Proietti	The large and destructive 1669 AD eruption at Etna volcano: reconstruction of the lava flow field evolution and effusion rate trend
15:15	Maurizio Mulas, Daniele Andronico, Filippo Mundula, Raffaello Cioni	The 1669 Monti Rossi eruption at Mt. Etna volcano (Italy)
15:30	Marcello Liotta, Andrea Rizzo, Antonio Paonita, Antonio Caracausi, Mauro Martelli	Sulfur isotope composition at Etna volcano (Italy)
15:45	Pier Paolo Giacomoni, Gabriele Lanzafame, Massimo Coltorti, Carmelo Ferlito	The role of volatiles on plagioclase stability in Mt Etna magmas
16:00	Cristina Perinelli, Mario Gaeta, Danilo Mauro Palladino, Pietro Armienti	Clinopyroxene compositions as an indicator of magmatic water content: insight from high pressure experiments on trachybasaltic magmas
16:15	Eugenio Nicotra, Marco Viccaro	What do cicerara lavas tell at Mt. Etna? A complex tale of long magma storage, ascent and relationships with volcano-tectonics
16:30 Coffee Break		
17:00	Lorella Francalanci, Eleonora Braschi,, Sara Di Salvo, Federico Lucchi, Chiara M. Petrone	Dual explosive activity revealed by petrochemical and mineralogical data on tephra: the historical eruptions of "Pizzo sopra la Fossa" at Stromboli volcano
17:15	Massimo Russo, Italo Campostrini	Type Minerals from the Island of Vulcano, Aeolian archipelago, Sicily, Italy
17:30	Fabio Speranza, Silvio G. Rotolo, Patrizia Landi, Anita Di Chiara, Francesca D' Ajello Caracciolo, Alessandro Pignatelli	Constraining timing of volcanic activity at Pantelleria (Strait of Sicily): the paleomagnetic contribution
17:45	A. Di Roberto, S. Meletlidis, M. Pompilio, A. Bertagnini, I. Iribarren, A. Felpeto, P. A. Torres, and C. D'Oriano	Xenopumices from the 2011–2012 submarine eruption of El Hierro (Canary Islands, Spain): Constraints on the plumbing system and magma ascent
18:00-18:30		Discussione Sessione 1

Giovedì 13 Dicembre

SESSIONE 2 (convenors: De Rosa R., Francalanci L.)

9:00	Oleksander Fedoryshyn	Estimation of overpressure in the asthenosphere, which is caused by partial melting
9:15	Costanza Bonadonna, Raffello Cioni, Marco Pistolesi, Chuck Connor, Simona Scollo, Laura Pioli, Mauro Rosi	Determination of the largest clast sizes of tephra deposits for the characterization of explosive eruptions: a study of the IAVCEI Commission on Tephra Hazard Modelling

9:30	Claudia D'Oriano, Antonella Bertagnini, Raffaello Cioni, Massimo Pompilio	Diagnostic features of recycled ash fragments during mid-intensity explosive eruptions at basaltic volcanoes
9:45	Fabio Dioguardi, Pierfrancesco Dellino, Daniela Mele, Mariateresa Balzano, Maria D'Addabbo, Giovanni Fanizza	Turbulent fountains and jets as an approximation of experimentally generated eruption columns
10:00	Roberto Sulpizio, Arnau Folch, Antonio Costa, Chiara Scaini, Pierfrancesco Dellino	Hazard assessment of far-range volcanic ash dispersal from a violent Strombolian eruption at Somma-Vesuvius volcano, Naples, Italy: Implications on civil aviation
10:15	Roberto Sulpizio, Damiano Sarocchi, Roberto Bartali, Luis A. Rodriguez-Sedano	Insights on Segregation and Support Mechanisms of Granular Flows from Field Analysis and Laboratory Experiments
10.30 Coffee Break		
11:00	Eugenio Nicotra, Marco Viccaro	Tracking feeding system processes and magma transfer dynamics during the 2006 eruptive events at Mt. Etna volcano
11:15	Rosa A. Corsaro, L. Miraglia	Mt. Etna volcanic activity from 2007 to 2012: petrologic data to infer mechanism driving recurrent lava fountains at South-East crater
11:30	Daniele Andronico, Antonio Cristaldi, Ferruccio Ferrari, Matthias Jauvin, Deborah Lo Castro, Simona Scollo	The 2011-2012 sequence of lava fountains at Mt Etna volcano: insights into the explosive processes and associated deposits
11:45	Francelle Azzopardi, Raymond Ellul, Michele Prestifilippo, Simona Scollo, Mauro Coltelli	The effect of Etna volcanic ash plumes on the Maltese islands
12:00	Boris Behncke, Daniele Andronico, Maria Deborah Lo Castro, Giovanni Tomarchio	Lava-snow/ice interactions during the 2011-2012 summit eruptions of Mount Etna
12:15	Alessandro Vona, Claudia Romano	The effect of undercooling on the crystallization kinetics of Stromboli and Etna basalts at dynamic conditions
12:30	Giovanni Lanzo, Patrizia Landi, Silvio G. Rotolo	Melt inclusion study on the pantelleritic Plinian eruption of the Green Tuff, Pantelleria island
12:45	Martina Casalini, Riccardo Avanzinelli, Simone Tommasini	Residence time analysis of active volcanic systems: the case study of Ischia and Pantelleria
13:00 Pranzo		
14:30	Stefano Carlino, Renato Somma, Claudia Troise, Giuseppe De Natale	Magma emplacement below active calderas: the case of Ischia Island and Campi Flegrei (Southern Italy)
14:45	Stefano Del Moro, Alberto Renzulli, Patrizia Landi, Sonia La Felice, Mauro Rosi	Unusual lapilli tuff ejecta erupted at Stromboli during the 15 March 2007 explosion shed light on the nature and thermal state of rock forming the crater system of the volcano
15:00	Eleonora Braschi, Lorella Francalanci, Martijn Klaver, Gareth R. Davies	Magma feeding an early hydromagmatic activity in the potassic period of Stromboli: the cases of the COA pyroclastic sequence and San Vincenzo scoria cone
15:15	Alessandro Bragagni, Riccardo Avanzinelli, Lorella Francalanci,	U-series isotopes in the present-day activity of Stromboli volcano: constrains on the plumbing system
15:30	Daniele Carbone, Michael P. Poland	Continuous gravity observations tracks dynamic processes at Kilauea Volcano

15:45	Giancarlo Scalera	The volcano-seismic clock of the South American Pacific Margin
16:00	Manuela Elissondo, Valerie Baumann, Costanza Bonadonna, Marco Pistolesi, Raffello Cioni, Antonella Bertagnini, Mauro Rosi, Patricia Sruoga, Rafael Gonzalez, Lorella Francalanci, Laura Chiari	Eruptive dynamics of the 2011 explosive phase of Puyehue-Cordón Caulle eruption (Chile)
16:15	Chiara M. Petrone, Lorella Francalanci, George E. Vougioukalakis, Laura Pinarelli	The post-Minoan plumbing system dynamics at Santorini Volcano, Greece
16:30-17:00	Discussione Sessione 2	
17:00 Coffee Break		
17:30-19:00	SESSIONE POSTER	
20:00	Cena sociale	

Venerdì 14 Dicembre		
SESSIONE 3 (convenors: Coltelli M., Scandone R.)		
9:00	Marco Aloisi, Valentina Bruno, Flavio Cannavò, Mario Mattia, Mimmo Palano, Danila Scandura	Strain rate analysis and volcanic source modelling: an integrated approach to image volcano dynamics at Mt. Etna
9:15	Salvatore D'Amico, Raffaele Azzaro, Tiziana Tuvè, Gaetano Zonno, UPStrat-MAFA Working Group	First studies of urban seismic risk at Mt. Etna volcano: an application of Disruption Index
9:30	Marcello D'Agostino, Giuseppe Di Grazia, Ferruccio Ferrari, Horst Langer, Alfio A. Messina, Danilo Reitano, Salvatore Spampinato	Tremor-based real time monitoring and early warning on Etna volcano (Italy): technical aspects and methods
9:45	Giancarlo Tamburello, Alessandro Aiuppa, Andrew J.S. McGonigle, Andrea Cannata, Euripides P. Kantzas	Non-stationary nature of SO degassing at Etna's North-east crater (Italy)
10:00	Simona Scollo, Antonella Boselli, Mauro Coltelli, Giuseppe Leto, Giuseppe Passeggio, Gianluca Pisani, Nicola Spinelli, Xuan Wang	A new scanning Lidar to monitor Etna volcanic plumes
10:15	Massimo Aranzulla, Flavio Cannavò, Simona Scollo, Giuseppe Puglisi, Giuseppina Immè	Can GPS detect volcanic plumes on Mount Etna?
10.30 Coffee Break		

11:00	Luciano Zuccarello, Daniele Carbone, Mauro Coltelli, Danilo Contrafatto, Alfio A. Messina, Domenico Patanè, Michele Prestifilippo, Salvatore Rapisarda, Gilberto Saccorotti, Simona Scollo, Luciano Scuderi, Gaetano Spata	Multidisciplinary monitoring of volcanic activity during the July-August 2011 lava fountain activities occurred on Etna volcano
11:15	Boris Behncke, Stefano Branca, Rosa A. Corsaro, Emanuela De Beni, Lucia Miraglia, Cristina Proietti	The 2011-12 summit activity of Etna: growth of the new SE crater and petrochemistry of the products
11:30	Giuseppe Falzone, Angelo Ferro, Tiziana Fisichella, Salvatore Gambino, Giuseppe Laudani, Ambra Mantovani	Tilt changes during the Mt. Etna 2011-2012 lava fountains
11:45	Mauro Coltelli, Giuseppe D'Anna, Danilo Cavallaro, Fausto Grassa, Giorgio Mangano, Raffele Azzaro, Antonino D'Alessandro, Giuseppe Passafiume, Alessandro Amato, Sergio Gurrieri, Domenico Patanè, Stefano Gresta	Ferdinanda 2012: the oceanographic cruise on the Graham Bank, Strait of Sicily
12:00	Horst Langer, Luciano Scarfi, Giuseppina Tusa, Danilo Galluzzo, Francesca Bianco, Paola Cusano, Gaetano Zonno, Alexandra Carvalho, Simon Olafsson, Rajesh Rupakhety, Ragnar Sigbjornsson	Calibration of input parameters for the creation of seismic risk scenarios in volcanic areas
12:15	Simona Scollo, Francelle Azzopardi, Antonella Boselli, Mauro Coltelli, Raymond Ellul, Giuseppe Leto, Federico Messina, Gianluca Pisani, Michele Prestifilippo, Martin Saliba, Joseph Schiavone, Gaetano Spata, Nicola Spinelli, Xuan Wang	Reduction of hazard from volcanic ash plumes between Sicily and Malta: the VAMOS SEGURO project
12:30	Maria D'Addabbo, Barbara Bedin, Massimo Guidi, Roberto Sulpizio	The effect of volcanic ash on environment: laboratory-leaching experiments on fresh and long-term exposure ash samples
12:45	Sergio Calabrese, Sarah Scaglione, Walter D'Alessandro, Lorenzo Brusca, Sergio Bellomo, Francesco Parello	A literature review and new data of trace metals fluxes from worldwide active volcanoes
13:00 Pranzo		
14:30	Francesco Obrizzo, Prospero De Martino, Umberto Tammaro, Vincenzo Sepe, Elena Cubellis, Giuseppe Brandi, Mario Dolce, Andrea D'Alessandro, Santa Malaspina	Non-permanent and permanent GPS networks on the Ischia island: ground deformation between 1998 and 2012.

14:45	Roberto Scandone, Lisetta Giacomelli	Campi Flegrei unrest revisited: long term precursor to an eruption cluster?
15:00-15:30	Discussione Sessione 3	
15:30-16.30	Consegna Medaglia A. Rittmann <i>Chiusura Conferenza</i>	